Software for the Identification of Cancer Biomarkers

Tech ID: 24481 / UC Case 2015-802-0

BACKGROUND

TECHNOLOGY DESCRIPTION

Software has been designed to function as a pipeline that processes public datasets and information to yield sets of differentially expressed mRNAs, which may be used as biomarkers for specific cancers. The output is also used to design isoform-specific primers for RT-qPCR analysis.

APPLICATIONS

ADVANTAGES

STATE OF DEVELOPMENT

Software has been used to identify a potential set of biomarkers, which will be validated.

INTELLECTUAL PROPERTY INFO

Copyright software available for licensure.

RELATED MATERIALS

- Roberts A, Pachter L. Streaming fragment assignment for real-time analysis of sequencing experiments. Nat Biotechnol. 2013;10(1): 71-73.
- Qu W, al. MFEprimer-2.0: a fast thermodynamics-based program for checking PCR primer specificity. Nucleic Acids Res. 2012, 40: W205–208.
- Trapnell C, et al. Transcript assembly and quantification by RNA-Seq reveals unannotated transcripts and isoform switching during cell differentiation. Nat. Biotechnol. 2010, 28(5): 511-515.

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OTHER INFORMATION

KEYWORDS

cancer, biomarker, primer, diagnosis, software

CATEGORIZED AS

- **Computer**
  - Software
- **Medical**
  - Diagnostics
  - Disease: Cancer

RELATED CASES

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